

CLAIMS

What is claimed, is:

1. A stove comprising:
 - a baking muffle having a top wall, a bottom wall, a rear wall and two side walls;
 - a plurality of guide rails located on said side walls at different levels above each other for holding and guiding at least one heatable cooking vessel at a selected one of said levels; and
 - electric contacts provided within said baking muffle;
 - said cooking vessel comprising:
 - a bottom made of a material selected from the group formed by glass and a glass ceramic, said bottom having an outer surface;
 - a directly heatable heating layer applied to a selected part of said bottom;
 - an insulating layer covering said heating layer;
 - a coupling layer arranged between said substrate layer and said heating layer;
 - a diffusion impeding top layer covering said insulating layer, wherein said top layer consists of a material selected from the group formed by an organic silicon based lacquer and by an inorganic lacquer comprising dispersed metal oxide particles;
 - and
 - contacts that cooperate with said electric contacts provided within said baking muffle for providing power supply to said cooking vessel.

2. A stove comprising
 - a baking muffle;
 - a plurality of guides located at different levels within said baking muffle for holding and guiding at least one heatable cooking vessel at a selected one of said levels; and
 - electric contacts provided within said baking muffle;
 - said cooking vessel comprising:
 - a bottom made of a material selected from the group formed by glass and a glass ceramic, said bottom having an outer surface;
 - a directly heatable heating layer applied to a selected part of said bottom;
 - an insulating layer covering said heating layer; and
 - a top layer covering said insulating layer;
 - contacts that cooperate with said electric contacts within said baking muffle for providing power supply to said cooking vessel.
3. The stove of claim 2, further comprising a plurality of guide rails located on side walls of said baking muffle for receiving cooking vessels at different levels.
4. The stove of claim 2, wherein said cooking vessel further comprises first contacts for electrically contacting said heating layer, said first contacts cooperating with second contacts provided within said baking muffle.
5. The stove of claim 2, wherein said cooking vessel is made of a borosilicate glass.

6. The stove of claim 2, wherein said cooking vessel is made of a glass ceramic.

7. The stove of claim 2, wherein said heating layer is configured as a layer deposited from a gas phase.

8. The stove of claim 2, wherein said heating layer is configured as a layer deposited by a process selected from the group formed by sputtering, chemical vapor deposition, physical vapor deposition, spraying pyrolysis and thermal spraying.

9. The stove of claim 2, wherein said heating layer comprises a material selected from the group formed by a nickel chromium based alloy, an iron chromium based alloy, and a metal oxide.

10. The stove of claim 2, wherein said heating layer comprises a material selected from the group formed tin oxide doped with at least one component selected from the group formed by cerium, lanthanum, antimony and zinc.

11. The stove of claim 2, further comprising a coupling layer arranged between said substrate layer and said heating layer.

12. The stove of claim 2, wherein said coupling layer comprises a material selected from the group formed by aluminum oxide, mullite and cordierite.

13. The stove of claim 2, wherein said heating layer has a thickness between 5 and 100 micrometers.

14. The stove of claim 2, wherein said heating layer has a thickness between 10 and 60 micrometers.

15. The stove of claim 2, wherein said heating layer has a thickness between 0.5 and 20 micrometers.

16. The stove of claim 2, wherein said heating layer has a thickness between 0.5 and 5 micrometers.

17. The stove of claim 2, wherein said insulating layer comprises a material selected from the group formed by zirconium oxide and aluminum oxide.

18. The stove of claim 2, further comprising a top layer covering said insulating layer.

19. The stove of claim 18, wherein said top layer is configured as a diffusion impeding layer.

20. The stove of claim 18, wherein said top layer is made of a material selected from the group formed by an organic silicon based lacquer and by an inorganic lacquer comprising dispersed metal oxide particles.

21. The stove of claim 18, wherein said top layer has a thickness between 5 and 100 micrometers.

22. The stove of claim 21, wherein said top layer has a thickness between 5 and 50 micrometers.

23. The stove of claim 2, wherein said cooking vessel comprises an anti-sticking layer.

24. The stove of claim 23, wherein said anti-sticking layer comprises PTFE.

25. The stove of claim 2, wherein said cooking vessel comprises a lower side carrying contacts that cooperate with mated contacts provided on guide rails within the baking muffle for providing power supply to said cooking vessel.

26. The stove of claim 2, wherein said cooking vessel comprises a contact plug cooperating with mated contact plugs provided at a rear wall of said baking muffle.

27. The stove of claim 2, wherein said heating layer is made of an electrically conductive paste having a high metallic content.

28. The stove of claim 27, wherein said heating layer is a screen printed layer made of a paste comprising silver.

29. The stove of claim 2, wherein said cooking vessel is configured as a bowl.

30. The stove of claim 2, wherein said cooking vessel is configured as a cover designed for covering a bowl.

31. In a stove comprising a baking muffle within which a guide means is provided:

a cooking vessel for receiving food, comprising

a bottom having an outer surface;

a heating layer provided on said outer surface;

a directly heatable heating layer applied to said outer surface;

an insulating layer covering said heating layer; and

electric contact means for electrically connecting said heating layer to an external power supply.

32. A cooking vessel for receiving food, comprising

a bottom having an outer surface;

a heating layer provided on said outer surface;

a directly heatable heating layer applied to said outer surface;

an insulating layer covering said heating layer; and

electric contacts for electrically connecting said heating layer to an external power supply.